10/817,454

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 * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 09:19:42 ON 06 DEC 2007

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'REGISTRY' ENTERED AT 09:20:09 ON 06 DEC 2007
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STRUCTURE FILE UPDATES:     5 DEC 2007  HIGHEST RN 956828-07-2
DICTIONARY FILE UPDATES:    5 DEC 2007  HIGHEST RN 956828-07-2

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experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

*** YOU HAVE NEW MAIL ***

=>
Uploading c:\program files\stnexp\queries\10817454.2

L1      STRUCTURE UPLOADED

=> d l2
L2 NOT FOUND
The L-number entered has not been defined in this session, or it
has been deleted.  To see the L-numbers currently defined in this
session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d l1
L1 HAS NO ANSWERS
L1              STR
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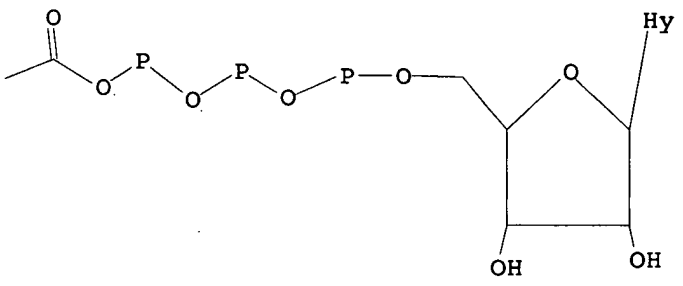


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Structure attributes must be viewed using STN Express query preparation.
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FULL SEARCH INITIATED 09:21:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     5376 TO ITERATE

100.0% PROCESSED     5376 ITERATIONS                                 26 ANSWERS
SEARCH TIME: 00.00.01

L2            26 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                  SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     172.55     172.76

FILE 'CAPLUS' ENTERED AT 09:21:32 ON 06 DEC 2007
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FILE COVERS 1907 - 6 Dec 2007  VOL 147 ISS 24
FILE LAST UPDATED: 5 Dec 2007  (20071205/ED)

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=> s l2
L3            8 L2

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4             8 DUP REM L3 (0 DUPLICATES REMOVED)

=> d l4 bib abs hitstr 1-8

L4   ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   2007:713329  CAPLUS
DN   147:272100
TI   Probing Adenosine Nucleotide-Binding Proteins with an Affinity-Labeled
     Nucleotide Probe and Mass Spectrometry
AU   Qiu, Haibo; Wang, Yinsheng
CS   Department of Chemistry, University of California, Riverside, CA,
     92521-0403, USA
SO   Analytical Chemistry (Washington, DC, United States) (2007), 79(15),
     5547-5556
     CODEN: ANCHAM; ISSN: 0003-2700
PB   American Chemical Society
DT   Journal
LA   English
AB   Mass spectrometry combined with chemical labeling strategies has become very
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important in biol. anal. Herein, the authors described the application of a biotin-conjugated acyl nucleotide for probing adenosine nucleotide-binding proteins. The authors demonstrated that the probe reacted specifically with the lysine residue at the nucleotide-binding site of two purified adenosine nucleotide-binding proteins, Escherichia coli recombinase A (RecA) and Saccharomyces cerevisiae alc. dehydrogenase-I (YADH-I). A single conjugate peptide with a specifically labeled lysine residue was identified, by using LC-MS/MS, from the tryptic digestion mixture of the reaction products of the nucleotide analog with RecA or YADH-I. The strategy, which involved labeling reaction, enzymic digestion, affinity purification, and LC-MS/MS anal., was relatively simple, fast, and straightforward. The method should be generally applicable for the identification of lysine residues at the nucleotide-binding site of other proteins. The biotin-conjugated acyl nucleotide probe also allowed for the enrichment and identification of nucleotide-binding proteins from complex protein mixts.; the authors showed that more than 50 adenosine nucleotide-binding proteins could be identified from the whole-cell lysates of HeLa-S3 and WM-266-4 cells.

IT 946568-67-8P
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(probing adenosine nucleotide-binding proteins with affinity-labeled nucleotide probe and mass spectrometry)

RN 946568-67-8 CAPLUS

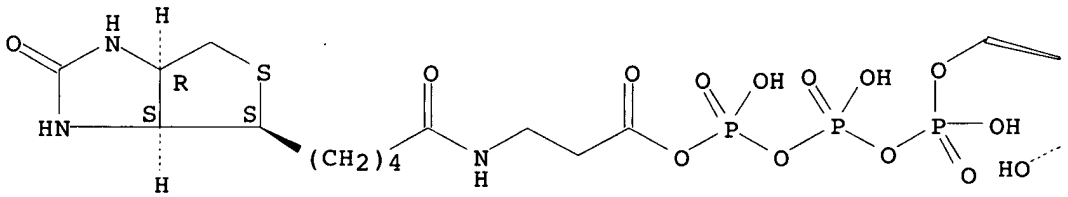
CN β-Alanine, N-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-, P''-anhydride with adenosine 5'-(tetrahydrogen triphosphate), compd. with N,N-dibutyl-1-butanamine (1:3) (CA INDEX NAME)

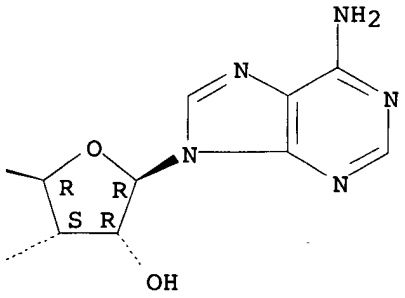
CM 1

CRN 946568-66-7
CMF C23 H35 N8 O16 P3 S

Absolute stereochemistry.

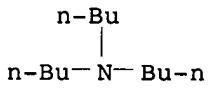
PAGE 1-A





CM 2

CRN 102-82-9
CMF C12 H27 N

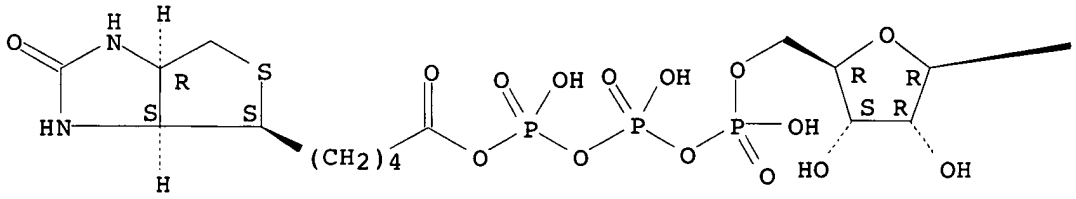


RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1291702 CAPLUS
DN 146:200721
TI Microarray-Based Kinase Inhibition Assay by Gold Nanoparticle Probes
AU Sun, Linlin; Liu, Dianjun; Wang, Zhenxin
CS State Key Laboratory of Electroanalytical Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, 130022, Peop. Rep. China
SO Analytical Chemistry (2007), 79(2), 773-777
CODEN: ANCHAM; ISSN: 0003-2700
PB American Chemical Society
DT Journal
LA English
AB We report on the development of a new class of kinase microarray for the detection of kinase inhibition based on marking peptide phosphorylation/biotinylation events by attachment of gold nanoparticles followed by silver deposition for signal enhancement. The α-catalytic subunit of cAMP-dependent protein kinase (PKA), and its well-known substrate, kemptide, were used for the purpose of monitoring phosphorylation and inhibition. As expected, highly selective inhibition of PKA is demonstrated with the four inhibitors: H89, HA1077, mallotoxin, and KN62. Furthermore, an inhibition assay demonstrates the ability to detect kinase inhibition as well as derive IC50 (half-maximal inhibitory concentration) plots.
IT 773149-42-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(microarray-based cAMP-dependent protein kinase inhibition assay by gold nanoparticle probes)
RN 773149-42-1 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with (3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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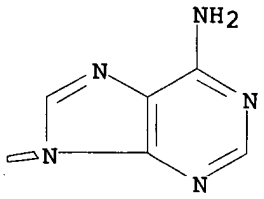


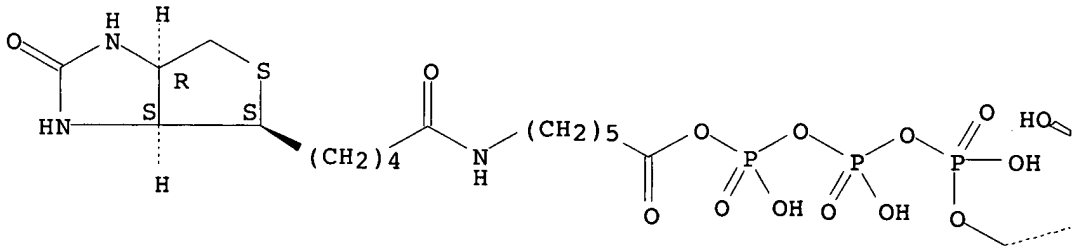
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1328942 CAPLUS
DN 146:246363
TI Functional Interrogation of the Kinome Using Nucleotide Acyl Phosphates
AU Patricelli, Matthew P.; Szardenings, A. Katrin; Liyanage, Marek; Nomanbhoy, Tyzoon K.; Wu, Min; Weissig, Helge; Aban, Arwin; Chun, Doris; Tanner, Stephen; Kozarich, John W.
CS ActivX Biosciences, La Jolla, CA, 92037, USA
SO Biochemistry (2007), 46(2), 350-358
CODEN: BICHAW; ISSN: 0006-2960
PB American Chemical Society
DT Journal
LA English
AB The central role of protein kinases in signal transduction pathways has generated intense interest in targeting these enzymes for a wide range of therapeutic indications. Here we report a method for identifying and quantifying protein kinases in any biol. sample or tissue from any species. The procedure relies on acyl phosphate-containing nucleotides, prepared from a biotin derivative and ATP or ADP. The acyl phosphate probes react selectively and covalently at the ATP binding sites of at least 75% of the known human protein kinases. Biotinylated peptide fragments from labeled proteomes are captured and then sequenced and identified using a mass spectrometry-based anal. platform to determine the kinases present and their relative levels. Further, direct competition between the probes and inhibitors can be assessed to determine inhibitor potency and selectivity against native protein kinases, as well as hundreds of other ATPases. The ability to broadly profile kinase activities in native proteomes offers an exciting prospect for both target discovery and inhibitor selectivity profiling.
IT 773149-44-3P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(broad profiling of protein kinases using nucleotide acyl phosphates)
RN 773149-44-3 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with

6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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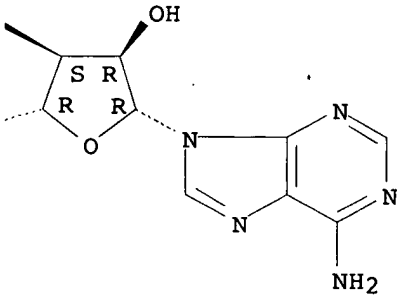


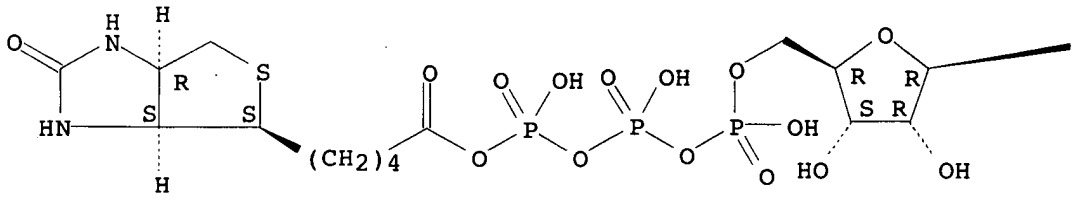
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:87234 CAPLUS
DN 144:345596
TI Kinase-Catalyzed Modification of Gold Nanoparticles: A New Approach to Colorimetric Kinase Activity Screening
AU Wang, Zhenxin; Levy, Raphaeel; Fernig, David G.; Brust, Mathias
CS Centre for Nanoscale Science, Department of Chemistry and School of Biological Sciences, The University of Liverpool, Liverpool, L69 7ZD, UK
SO Journal of the American Chemical Society (2006), 128(7), 2214-2215
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
AB Peptide-stabilized gold nanoparticles have been enzymically biotinylated by a kinase-catalyzed reaction using biotin-ATP as a cosubstrate. Upon mixing with avidin-modified particles, solns. of biotinylated particles change color from red to blue, indicating aggregation of particles. On the basis of this reaction, we have developed a simple colorimetric test to monitor kinase inhibitor activity.
IT 773149-42-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(new approach to colorimetric kinase activity screening using avidin-modified gold nanoparticles)

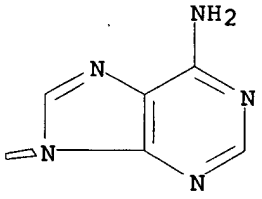
RN 773149-42-1 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with (3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:878499 CAPLUS
DN 141:328168
TI Acyl-phosphate probes, methods for their synthesis, and their use in protein labeling
IN Campbell, David Alan; Liyanage, Marek; Szardenings, Anna Katrin; Wu, Min
PA Activx Biosciences, Inc., USA
SO PCT Int. Appl., 117 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004090154	A2	20041021	WO 2004-US10075	20040401
	WO 2004090154	A3	20050506		
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	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004227362	A1	20041021	AU 2004-227362	20040401

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	US 2005043507	A1	20050224	US 2004-817454	20040401
	EP 1616034	A2	20060118	EP 2004-758736	20040401
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	JP 2006526010	T	20061116	JP 2006-509592	20040401
PRAI	US 2003-459797P	P	20030401		
	WO 2004-US10075	A	20040401		

OS MARPAT 141:328168

AB The present invention provides tagged acyl phosphate probes ('TAPPs'), and methods of their preparation and use. The subject methods and compns. can provide enhanced simplicity and accuracy in identifying changes in the presence, amount, or activity of target proteins in a complex protein mixture, preferably nucleotide binding proteins using nucleotide binding protein-directed TAPPs. The profiling methods described herein can have a number of steps leading to the identification of target nucleotide binding protein(s) in a complex protein mixture Thus, 32 different nucleotides labeled via a phosphate group with fluorophores or biotin were synthesized. These were used to label protein mixts. Labeled nucleotide-binding proteins were isolated by affinity chromatog. and identified by mass spectrometry.

IT 773149-43-2P 773149-45-4P 773149-47-6P
773149-49-8P 773149-63-6P 773149-70-5P
773149-71-6P 773149-73-8P 773149-75-0P
773149-79-4P
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(acyl-phosphate probes, methods for their synthesis, and their use in protein labeling)

RN 773149-43-2 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with (3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

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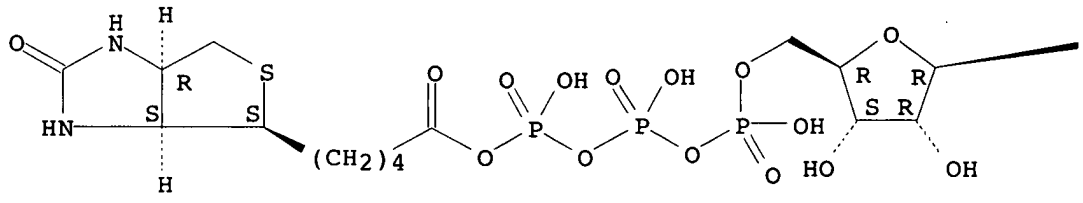
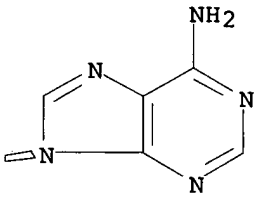
CRN 773149-42-1
CMF C20 H30 N7 O15 P3 S

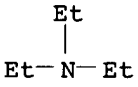
Absolute stereochemistry.





CM 2

CRN 121-44-8
CMF C6 H15 N

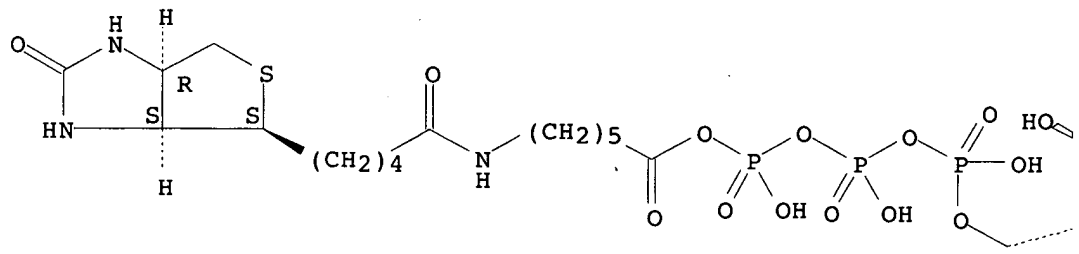


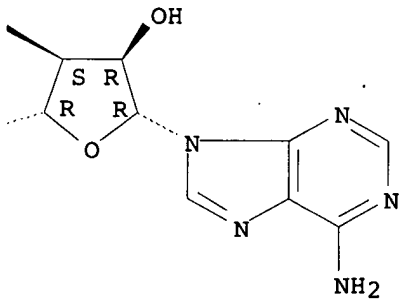
RN 773149-45-4 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 773149-44-3
CMF C26 H41 N8 O16 P3 S

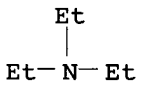
Absolute stereochemistry.





CM 2

CRN 121-44-8
CMF C6 H15 N

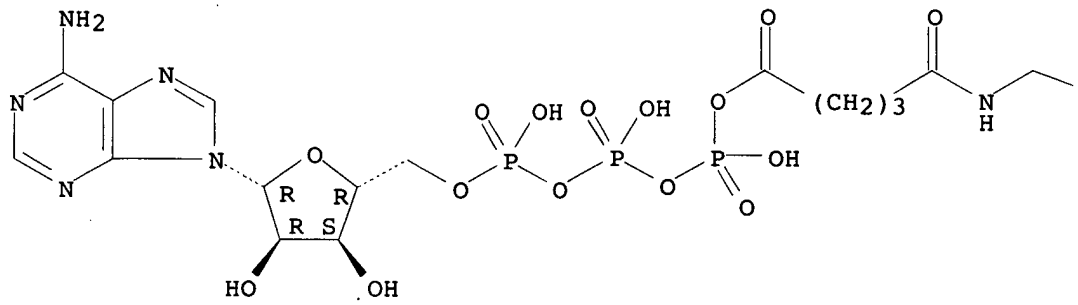


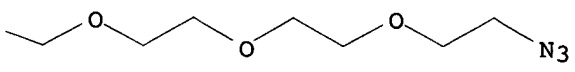
RN 773149-47-6 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 1-azido-13-oxo-3,6,9-trioxa-12-azaheptadecan-17-oic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 773149-46-5
CMF C23 H38 N9 O18 P3

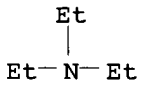
Absolute stereochemistry.





CM 2

CRN 121-44-8
CMF C6 H15 N



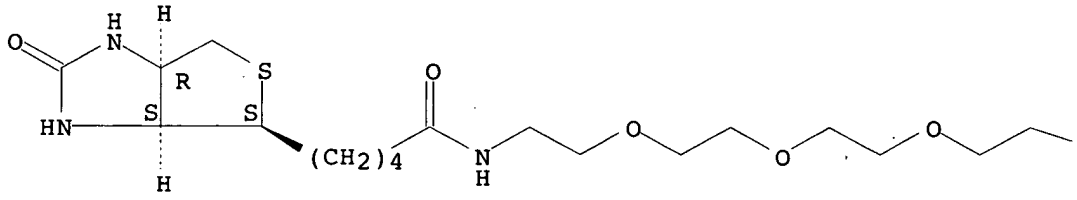
RN 773149-49-8 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 21-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-17-oxo-4,7,10,13-tetraoxa-16-azaheneicosanoic acid,. compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

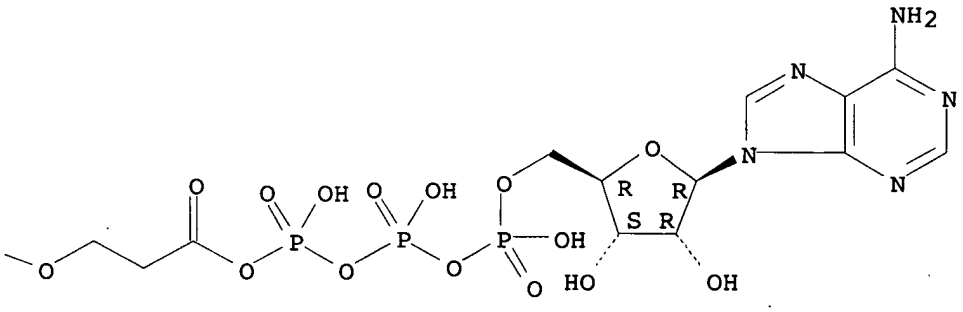
CRN 773149-48-7
CMF C31 H51 N8 O20 P3 S

Absolute stereochemistry.

PAGE 1-A

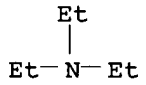


PAGE 1-B



CM 2

CRN 121-44-8
CMF C6 H15 N



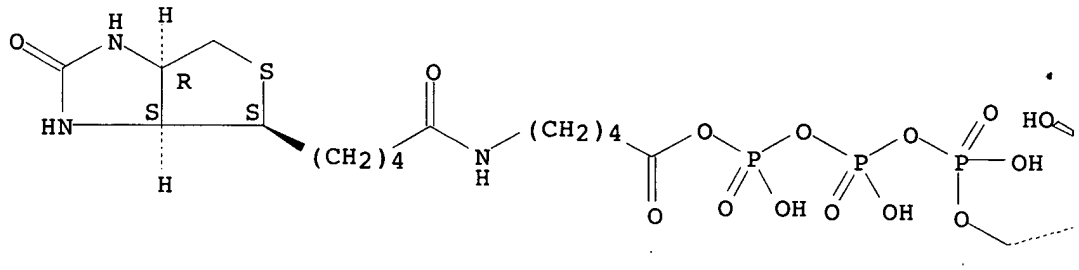
RN 773149-63-6 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 5-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]pentanoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

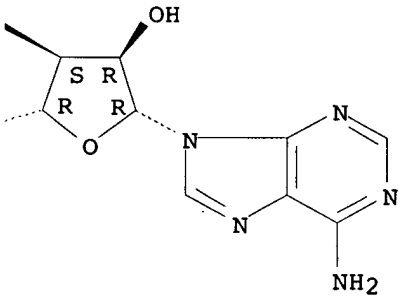
CRN 773149-62-5
CMF C25 H39 N8 O16 P3 S

Absolute stereochemistry.

PAGE 1-A

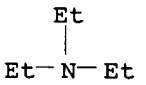


PAGE 1-B



CM 2

CRN 121-44-8
CMF C6 H15 N



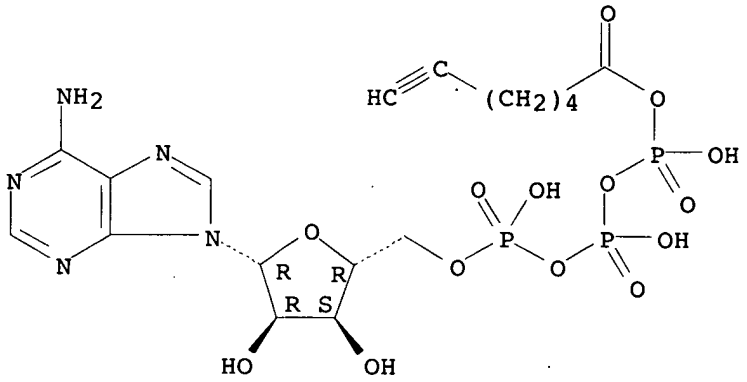
RN 773149-70-5 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-heptynoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

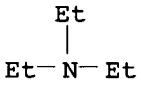
CRN 773149-69-2
CMF C17 H24 N5 O14 P3

Absolute stereochemistry.



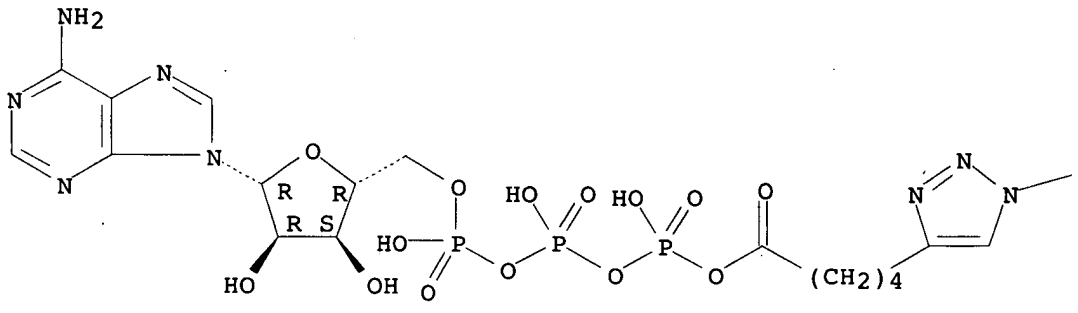
CM 2

CRN 121-44-8
CMF C6 H15 N



RN 773149-71-6 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 9-[2-carboxy-5-[13-[4-(4-carboxybutyl)-1H-1,2,3-triazol-1-yl]-1-oxo-5,8,11-trioxa-2-azatridec-1-yl]phenyl]-3,6-bis(dimethylamino)xanthylium inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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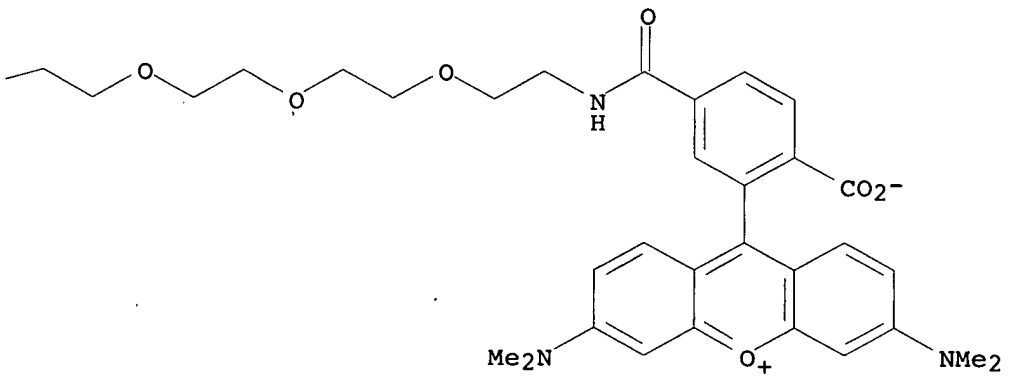


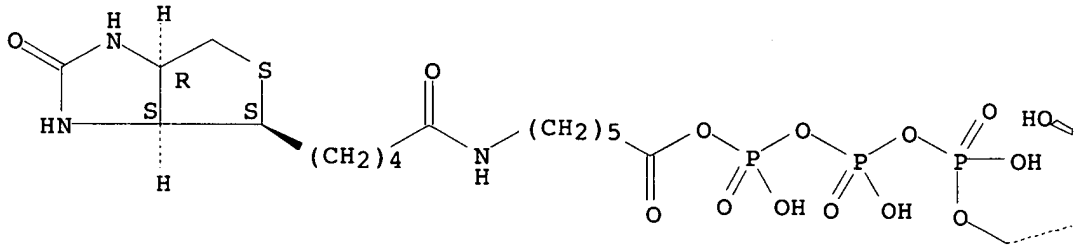
RN 773149-73-8 CAPLUS
CN Cytidine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

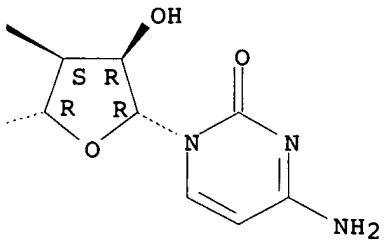
CRN 773149-72-7
CMF C25 H41 N6 O17 P3 S

Absolute stereochemistry.

PAGE 1-A

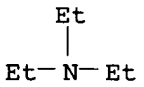


PAGE 1-B



CM 2

CRN 121-44-8
CMF C6 H15 N



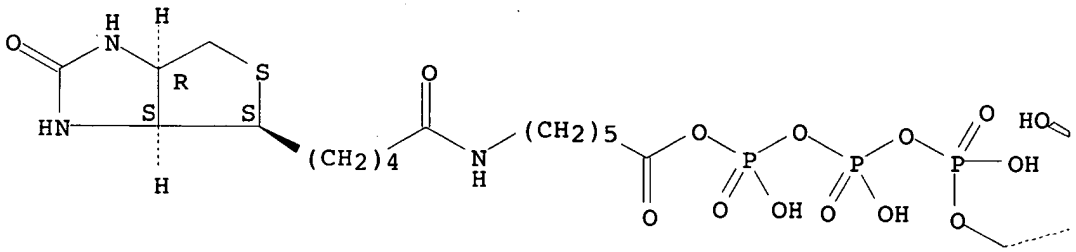
RN 773149-75-0 CAPLUS
CN Guanosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

CRN 773149-74-9
CMF C26 H41 N8 O17 P3 S

Absolute stereochemistry.

PAGE 1-A



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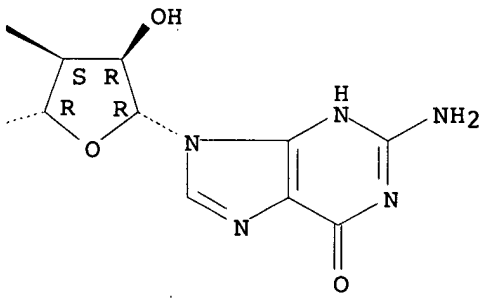
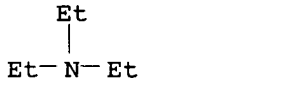


CM 2

CRN 121-44-8
CMF C6 H15 N



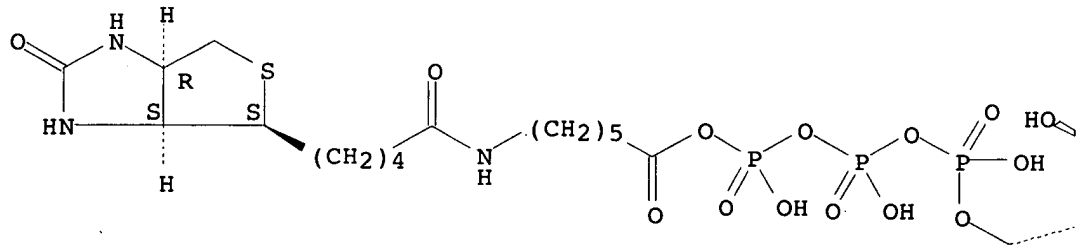
RN 773149-79-4 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

CRN 773149-78-3
CMF C25 H40 N5 O18 P3 S

Absolute stereochemistry.

PAGE 1-A



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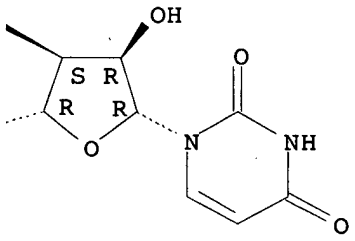
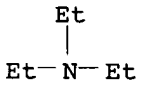


CM 2

CRN 121-44-8
CMF C6 H15 N



L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1999:448706 CAPLUS
DN 131:239288
TI Synthesis and transmembrane transport studies of lipophilic adenosine

5'-triphosphate derivatives

AU Kreimeyer, Annett; Andre, Francois; Bluzat, Aline; Gouyette, Catherine; Huynh-Dinh, Tam
CS Unite de Chimie Organique, ERS 588, Institut Pasteur, Paris, F-75724, Fr.

SO Nucleosides & Nucleotides (1999), 18(4 & 5), 995-999
CODEN: NUNUD5; ISSN: 0732-8311
PB Marcel Dekker, Inc.
DT Journal
LA English
OS CASREACT 131:239288

AB The preparation of acyl adenosine 5'-triphosphates as potential membrane permeable prodrugs is presented. The interaction of myristoyl- and cholesteryloxy-carbonyl-ATP with liposomes as model membranes and the release of ATP inside these vesicles was investigated using an enzymic assay as well as 31P-NMR spectroscopy.

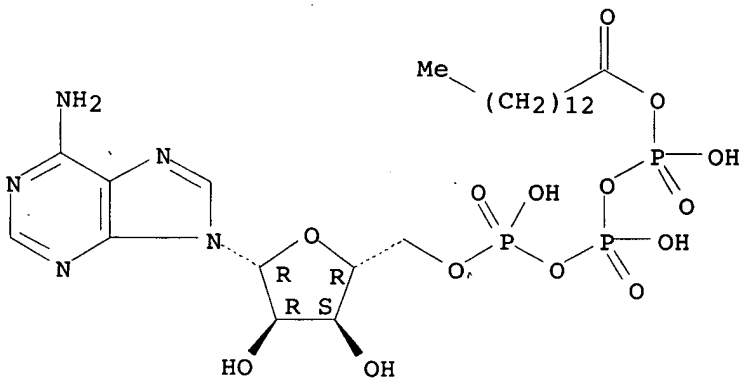
IT 185801-52-9P 244301-30-2P
RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
(synthesis and transmembrane transport studies of lipophilic 5'-ATP derivs.)

RN 185801-52-9 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with tetradecanoic acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

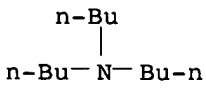
CRN 185801-51-8
CMF C24 H42 N5 O14 P3

Absolute stereochemistry.



CM 2

CRN 102-82-9
CMF C12 H27 N

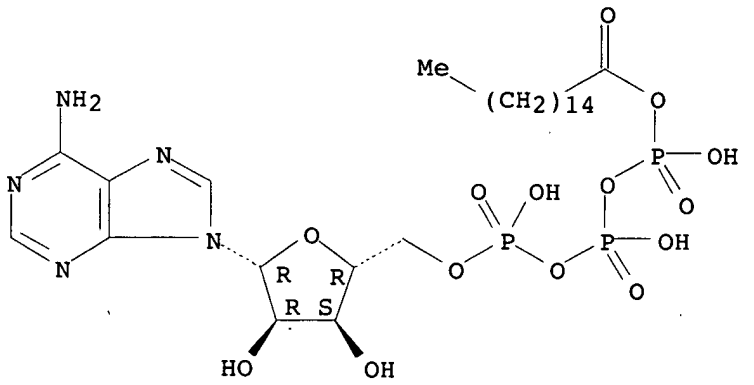


RN 244301-30-2 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with hexadecanoic acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

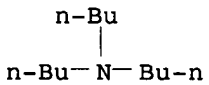
CRN 244301-29-9
CMF C26 H46 N5 O14 P3

Absolute stereochemistry.



CM 2

CRN 102-82-9
CMF C12 H27 N



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

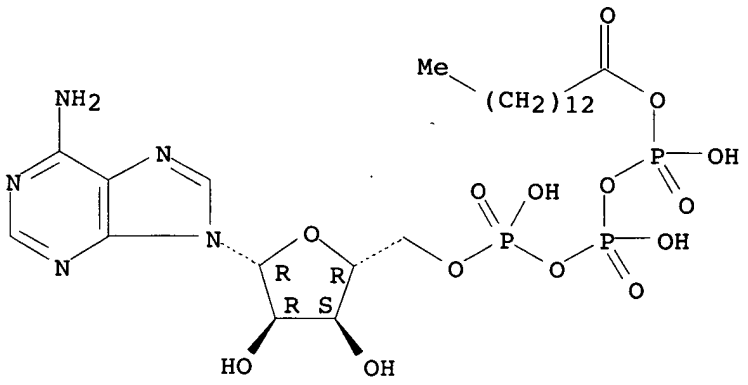
L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1996:729938 CAPLUS
DN 126:89688
TI Synthesis of acylphosphates of purine ribonucleosides
AU Kreimeyer, Annett; Ughetto-Monfrin, Joel; Namane, Abdelkader; Huynh-Dinh, Tam
CS Unite Chimie Organique, Inst. Pasteur, Paris, 75724, Fr.
SO Tetrahedron Letters (1996), 37(48), 8739-8742
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English
AB Nucleotides do not penetrate cells at a sufficient rate to realize their therapeutic potential. To overcome this limitation we have envisaged acyl nucleodi(tri)phosphates (ND(T)Ps) as suitable membrane permeable prodrugs because (a) preliminary experiences have shown that these compds. are preferably cleaved at their mixed carboxylic phosphoric bond to generate the corresponding carboxylic groups, and (b) the potential modification fo the acyl group allows to vary the lipophilicity of the acyl nucleotide derivative
IT 185801-52-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of purine ribonucleoside acylphosphates for potential therapeutic use)
RN 185801-52-9 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with tetradecanoic acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

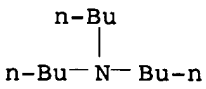
CRN 185801-51-8
CMF C24 H42 N5 O14 P3

Absolute stereochemistry.



CM 2

CRN 102-82-9
CMF C12 H27 N

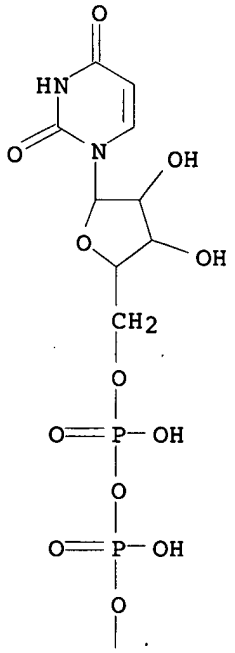


RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1987:473773 CAPLUS
DN 107:73773
TI The quantitation of biotinylated compounds by a solid-phase assay using a iodine-125-labeled biotin derivative
AU Smith, Peter J.; Warren, Robin M.; Von Holt, Claus
CS Res. Cent. Mol. Biol., UCT-CSIR, Rondebosch, 7700, S. Afr.
SO FEBS Letters (1987), 215(2), 305-10
CODEN: FEBLAL; ISSN: 0014-5793
DT Journal
LA English
AB The biotin analog biotinylglycyltyrosine has been synthesized and labeled to a specific activity of 2000 Ci/mmol with 125I. This analog has been used in conjunction with immobilized streptavidin in an assay which detects as little as 1 fmol biotin or biotinylated mols. in solution The determination of biotinylated insulin in a tissue extract and the quantitation of a transcription assay are given as examples.
IT 109658-77-7
RL: ANT (Analyte); ANST (Analytical study)
(determination of, in RNA)
RN 109658-77-7 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), P''-anhydride with hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid, [3aS-(3aα,4β,6aα)]- (9CI) (CA INDEX NAME)

PAGE 1-A



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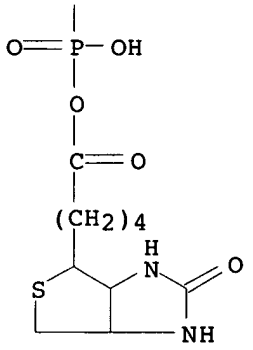

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